Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#10: Graphs of Quadratic Functions

Geometry

Due: September 22nd, 2015

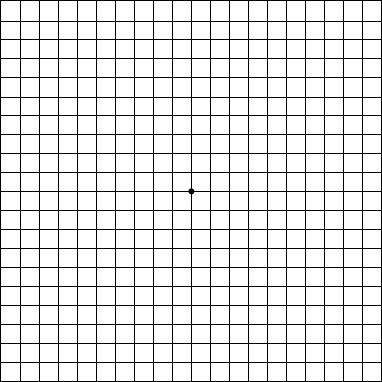
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| --- |
| **Expectations:**   * Use complete sentences when explaining your reasoning. * Show all your work. If your work is on a separate sheet of paper, **STAPLE IT**. * Why > How > What |

**Part I: Quadratic Graphs**

1. List 4-5 key features or important points on the quadratic graphs below. Make sure to label the coordinates, *(x, y)*, of the important points.

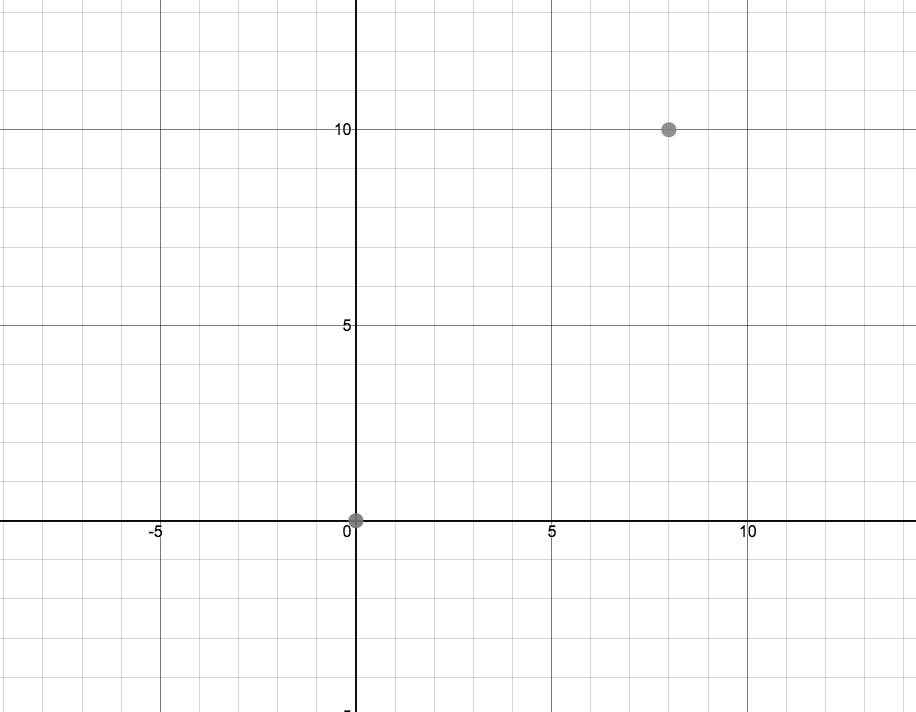
|  |  |
| --- | --- |
| A.  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 5.57.09 PM.png | B.  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 5.55.44 PM.png |
| C.  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 5.52.36 PM.png | D.  Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 6.00.34 PM.png |

*f(x) = x2+3*

1.   
   a) Complete the table for *f(x)* in the table to the right.   
     
   b) Graph the points on the grid provided.   
     
   c) On the graph, label 4-5 key features or important points.

|  |  |
| --- | --- |
| *x* | *f(x)* |
| -2 |  |
| -1 |  |
| 0 |  |
| 1 |  |
| 2 |  |

**Part II: Review**

1. Suppose the point X1 is at -4 and X2 is at 10. Find the distance between the points and show your work.
2. Find the midpoint of the segment that connects points *A* and *B*.